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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/750,404	12/28/2000	Kaartik Viswanath	112025-0419	6927

7590 11/23/2005  
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EXAMINER

LUU, LE HIEN

ART UNIT PAPER NUMBER

2141

DATE MAILED: 11/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/750,404

Applicant(s)

VISWANATH ET AL.

Examiner

Le H. Luu

Art Unit

2141

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 09 September 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1,2,4-6 and 8-36 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-2, 4-6, and 8-36 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

1. Claims 1-2, 4-6, and 8-36 are presented for examination.
2. The rejections of claims 27, 32, 34, and 36 under 35 U.S.C. § 112 have been withdrawn due to applicant's amendment filed 09/09/05.
3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --  
(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
4. Claims 8, 11-14, 17-26, 28, 30-31, 33, 35 are rejected under 35 U.S.C. § 102(b) as being clearly anticipated by Cisco Systems Inc. (TN3270 Server Implementation).
5. As to claims 8, 14, 22-25, 30, and 35, Cisco teaches the invention as claimed, including a method for generating unique subordinate resource names, comprising:

identifying one or more subordinate resources, each of the one or more subordinate resources related to one of one or more superior resources (page 5 under Defining PU, 3<sup>rd</sup> paragraph, 3<sup>rd</sup> line down; wherein the subordinate resources are the LUs and the superior resources are the PUs);

truncating a name of the one or more superior resources (page 13, Table 2-1: LU Naming Summary, row 4 and column 2; it's defaults to the first 6 characters, thereby truncating the remaining characters after the first 6 characters); and

naming each of the one or more subordinate resources as a combination of the truncated name of its related superior resource and an identification (ID) number, the ID number unique to each of the one or more subordinate resources across all of the one or more superior resources (page 13, Table 2-1: LU Naming Summary, row 4 and column 2; naming LU by using the first 6 characters of PU followed by LOCADDR, there are 2-byte hexadecimal number can be used for LOCADDR).

6. As to claims 11, 17, 26, 28, 31, and 33 Cisco teaches truncating n characters of the superior resource name, where n is greater than or equal to three (page 13, Table 2-1: LU Naming Summary, row 4 and column 2; default to first 6 characters of the PU, thereby truncating the remaining characters after the first 6 characters).

7. As to claims 12 and 20, Cisco teaches using one or more physical units (PUs) as the one or more superior resources (pages 5-6, Section Defining PUs; page 13, Table 2-1: LU Naming Summary, row 4 and column 2; it's using the PU's name).

8. As to claims 13 and 21, Cisco teaches using one or more logical units (LUs) as the one or more subordinate resources (page 6, Defining LUs).

9. As to claim 18, Cisco teaches a server in communicating relationship with the one or more superior resources (page 3, Section "Router Software Requirements"; wherein the server is the TN3270 Server communicating with the PU resources).

10. As to claim 19, Cisco teaches a computer network for use as the communicating relationship (page 17, Section "Addressing SNA Routing in Multi-Domain Environments", 3<sup>rd</sup> paragraph; wherein the computer network use to communicating relationship is the SNA network).

11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

12. Claims 1-2, 4-6, 9-10, 15-16, 27, 29, 32, 34, and 36 are rejected under 35 U.S.C. § 103 (a) as being unpatentable over Cisco Systems Inc. (TN3270 Server Implementation), herein after referred to as Cisco, in view of Shakib et al. (US Pat. 5,812,793), hereinafter referred to as Shakib.

Art Unit: 2141

13. As to claims 1 and 5, Cisco discloses the invention substantially as claim including a method for generating a unique subordinate resource name, said method comprising the steps of:

identifying a first subordinate resource (page 5 under Defining PU, 3<sup>rd</sup> paragraph, 3<sup>rd</sup> line down; wherein the subordinate resource is the LU) and a related first superior resource (page 5 under Defining PU, 3<sup>rd</sup> paragraph, 3<sup>rd</sup> line down; wherein the superior resource is the PU);

ascertaining the name of said first superior resource (page 13, Table 2-1: LU Naming Summary, row 4 and column 2; it's using the PU's name);

truncating said first superior resource name to form a first truncated name (page 13, Table 2-1: LU Naming Summary, row 4 and column 2; it defaults to the first 6 characters, thereby truncating the remaining characters after the first 6 characters);

obtaining a first counter number from a counter (page 32, under Creating a Pool of Static LU Using LU Nailing, 2<sup>nd</sup> paragraph; wherein the counter number is the LOCADDR that ranges from 1 to 255);

appending said first counter number to said first truncated name to form a first appended name (page 13, Table 2-1: LU Naming Summary, row 4 and column 2; wherein the truncated first 6 characters from the PU is appended to the 2 byte hexadecimal number obtained from the LOCADDR);

assigning said first appended name to said first subordinate resource (page 13, Table 2-1: LU Naming Summary, row 4 and column 2);

identifying a second subordinate resource (page 5 under Defining PU, 3<sup>rd</sup> paragraph, 3<sup>rd</sup> line down; wherein the subordinate resource is another LU) and a related second superior resource (page 5 under Defining PU, 3<sup>rd</sup> paragraph, 3<sup>rd</sup> line down; wherein the superior resource is another PU);

ascertaining the name of said second superior resource (page 13, Table 2-1: LU Naming Summary, row 4 and column 2; it's using the second PU's name);

truncating said second superior resource name to form a second truncated name (page 13, Table 2-1: LU Naming Summary, row 4 and column 2; it's defaults to the first 6 characters, thereby truncating the remaining characters after the first 6 characters);

obtain a second counter number (page 7, 10<sup>th</sup> paragraph, The TN 3270 server allocates a LOCADDR from the next available LU in the LU pool);

appending a second counter number to said second truncated name to form a second appended name (page 13, Table 2-1: LU Naming Summary, row 4 and column 2; wherein the truncated first 6 characters from the PU is appended to the 2 byte hexadecimal number obtained from the LOCADDR); and

assigning said second appended name to the second subordinate resource (page 13, Table 2-1: LU Naming Summary, row 4 and column 2).

Cisco, however, fails to teach incrementing a global counter to obtain said second counter number. Instead, Cisco discloses a 2 byte hexadecimal number obtained from the LOCADDR counter.

Shakib discloses a counter (clock sequence number) which is incremented every time a GUID value is generated to uniquely identify a particular replica node among all

replica nodes. In addition, Shakib discloses concatenating with said globally unique identifier a counter value which is incremented when a new unique change identifier is needed (column 16, lines 44-53; column 18, lines 26-27).

It would have been obvious to one of ordinary skill in the Data Processing art at the time of the invention to combine the teachings of Cisco and Shakib to use a global counter to obtain the next unique counter number as taught by Shakib because it would generate unique counter number to be used in generating unique resource name.

14. As to claims 2, 4 and 6, Cisco teaches truncating n characters of the first and second superior resource names, where n is greater than or equal to three (page 13, Table 2-1: LU Naming Summary, row 4 and column 2; default to first 6 characters of the PU, thereby truncating the remaining characters after the first 6 characters; naming LU by using the first 6 characters of PU followed by LOCADDR, there are 2-byte hexadecimal number can be used for LOCADDR; 2-bytes has more than three digits).

15. As to claims 9-10, 15-16, 27, 29, 32, 34, and 36, Cisco discloses the invention substantially as discussed above. Cisco, however, fails to teach obtaining the identification number from a global counter.

Shakib discloses a counter (clock sequence number) which is incremented every time a GUID value is generated to uniquely identify a particular replica node among all replica nodes. In addition, Shakib discloses concatenating with said globally unique

identifier a counter value which is incremented when a new unique change identifier is needed (column 16, lines 44-53; column 18, lines 26-27).

It would have been obvious to one of ordinary skill in the Data Processing art at the time of the invention to combine the teachings of Cisco and Shakib to use a global counter to obtain the next unique counter number as taught by Shakib because it would generate unique counter number to be used in generating unique resource name.

16. In the remarks, applicant argued in substance that

(A) Prior art does not teach naming each of the one or more subordinate resources as a combination of the truncated name of its related superior resource and an identification (ID) number, the ID number unique to each of the one or more subordinate resources across all of the one or more superior resources.

As to point (A), Cisco teaches naming a LU (each of the one or more subordinate resources) as a combination of the first 6 characters of a PU by truncating the remaining characters of the PU except the first 6 characters of the PU (truncated name of its related superior resource) and followed by a 2-byte hexadecimal number (an identification (ID) number) of the respective LOCADDR of this LU. The 2-byte hexadecimal number provides  $2^{16}$  (65,536) unique numbers (the ID number unique) to be used to generate unique name for the LU (each of the one or more subordinate resources) across all of the one or more PUs (page 5 under Defining PU, 3<sup>rd</sup> paragraph, 3<sup>rd</sup> line down; page 13, Table 2-1: LU Naming Summary, row 4 and column 2).

17. Applicant's arguments filed on 09/26/05 have been fully considered but they are not deemed to be persuasive.

18. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

19. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Le H. Luu whose telephone number is 571-272-3884. The examiner can normally be reached on 7:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharia can be reached on 571-272-3880. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

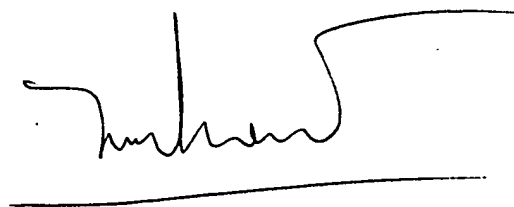
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic

Application/Control Number: 09/750,404

Page 10

Art Unit: 2141

Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Le Hien Luu', is written above a horizontal line.

LE HIEN LUU  
PRIMARY EXAMINER